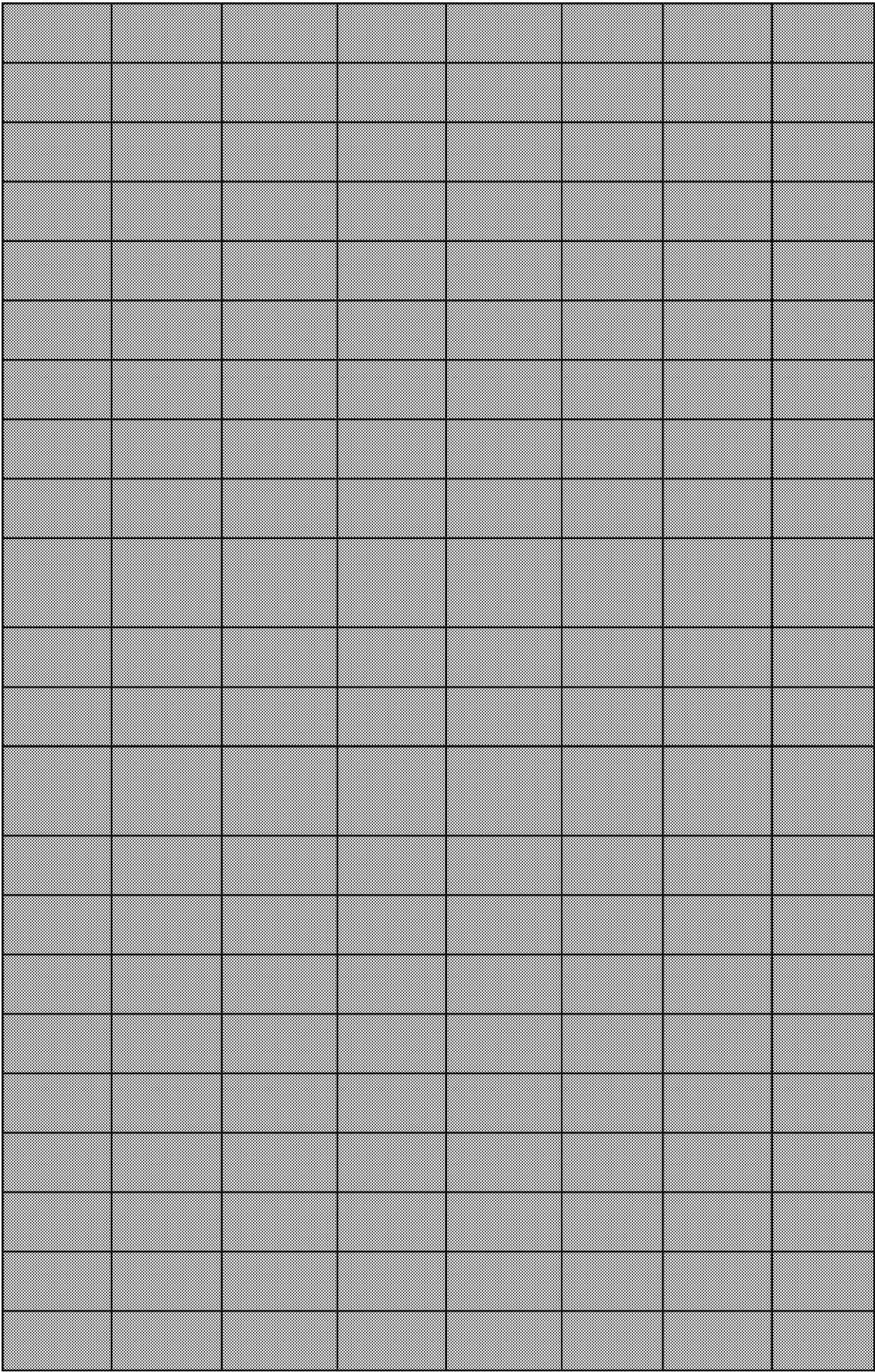


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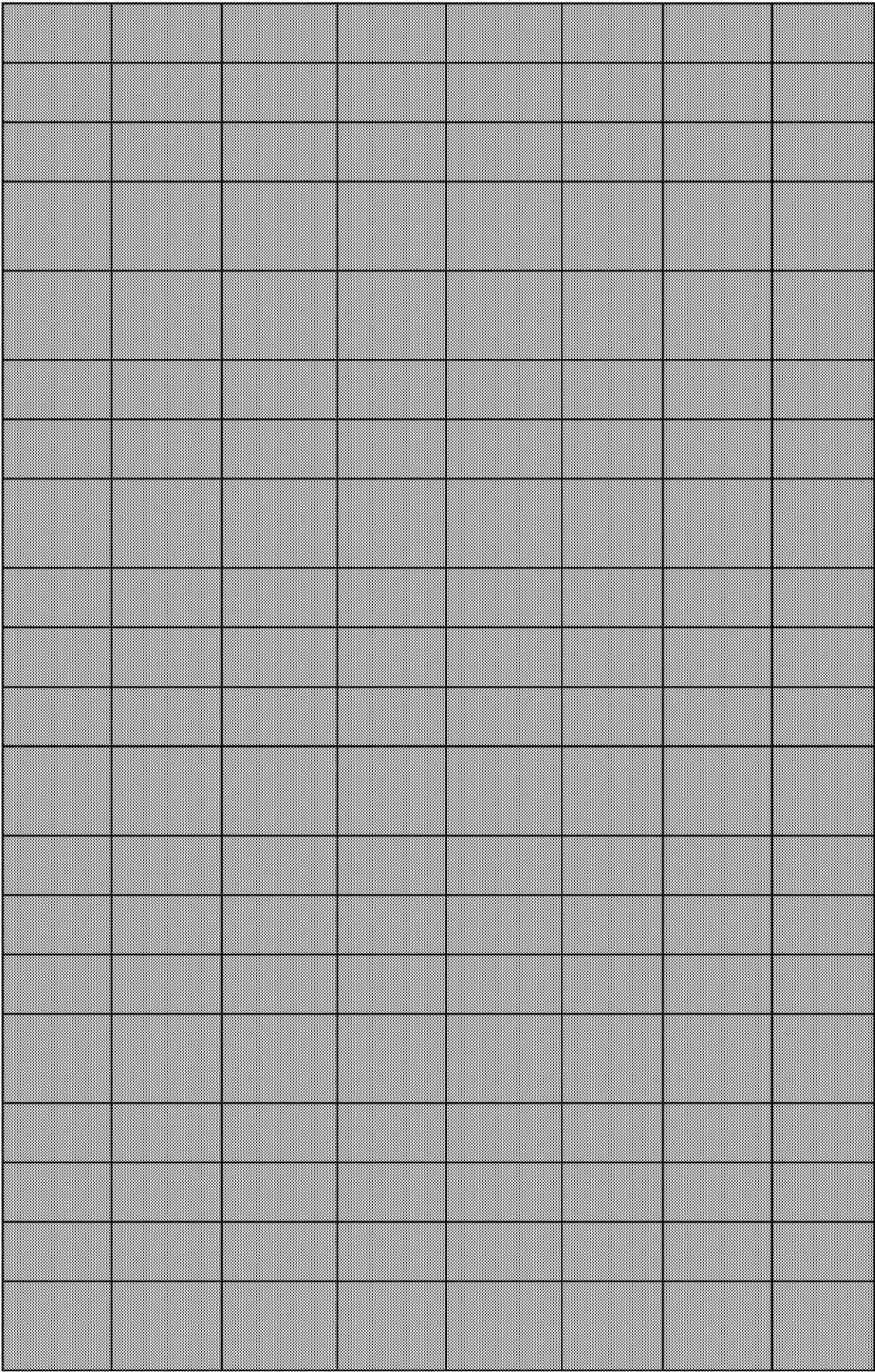
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Expression of the <i>gdh2</i> gene encoding the alpha-subunit of mitochondrial glutamate dehydrogenase depends on redox s
BACKGROUND: Mild oxidative stress induces the cells to proliferate. On the other hand, too much oxidative stress may c
OBJECTIVES: This study aimed to investigate whether the levels of rsGFP mRNA and the fluorescence levels of cytomegal
The hemibiotrophic basidiomycete <i>Moniliophthora perniciosa</i> causes "witches' broom disease" in cacao ( <i>Theobroma cac</i>
The physiological dormancy of sunflower ( <i>Helianthus annuus</i> ) embryos can be overcome during dry storage (after-ripeni
Reactive oxygen species (ROS) have traditionally been viewed as a toxic group of molecules; however, recent publication
Paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) is widely used as a redox cyclor to stimulate superoxide production
Reduced glutathione (GSH) protects cells against injury by oxidative stress and maintains a range of vital functions. In vitr
Stem cell-mediated tissue repair is a promising approach for many diseases. Mammalian intestine is an actively regenera
Tronchuda cabbage extracts have been proven to have antioxidant potential against various oxidative species in cell free
Angiotensin II (Ang II) inhibits the cardiac sarcolemmal Na(+)-K(+) pump via protein kinase (PK)C-dependent activation of
Abstract Mammalian POLQ (pol theta) is a specialized DNA polymerase with an unknown function in vivo. Roles have bee
Paraquat (PQ), a herbicide used worldwide, causes fatal injury to organs upon high dose ingestion. Treatments for PQ po
In <i>Pseudomonas aeruginosa</i> , flavohemoglobin (Fhp) and its cognate regulator FhpR (PA2665) form a protective regulator
In an effort to better control bacterial biofilm, we examined the effects of various oxidative antimicrobial chemicals inclu
Skin-derived fibroblasts from long-lived mutant mice, including the Snell dwarf mice and mice defective in growth hormo
Genetic manipulation of embryonic stem (ES) cells has been used to produce genetically engineered mice modeling hum
In addition to the endogenous production of reactive oxygen species (ROS) as a result of normal development, amphibian
BACKGROUND: The Ste-20 family kinase Hippo restricts cell proliferation and promotes apoptosis for proper organ devel
Carbonyl reductase/20beta-hydroxysteroid dehydrogenase (CR/20beta-HSD) serves both as a key enzyme in the gonadal

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Heat shock transcription factor A2 (HsfA2) is induced under environmental stress and regulates transcription of various d
The action mode of 4,4-diaminodiphenylsulfone (DDS) is still under debate, although it has long been used in treatment o
Oxidative stress is thought to play a role in the development of insulin resistance. In order to elucidate the molecular effe
Campylobacter jejuni (C. jejuni) is a leading cause of human enteritis worldwide and the most frequently reported zoono
Accumulated evidence indicates that oxidative stress causes and/or promotes insulin resistance; however, the mechanis
In this study we have examined the effect of exposure to different congeners of PCBs and their role in oxidative stress re
The copper complex tetraanhydroaminobenzaldehyde is a synthetic compound with structural (16 atoms in a macrocycli
Loss of the VHL tumor suppressor is regarded as an initiating event in the development of clear-cell renal carcinoma. Sur
Gluconacetobacter diazotrophicus, an endophyte isolated from sugarcane, is a strict aerobe that fixates N(2). This proces
Effects of the herbicide paraquat were assessed on the green freshwater alga Chlamydomonas reinhardtii using different
This work evaluated the ability of one synthetic compound 1-(4-fluorophenylthiocarbamoyl)-4-methyl-piperazine (FTMP)
Exposure of the green alga Chlamydomonas reinhardtii Dangeard to a combination of environmental stress by high light
Paraquat (PQ), a commonly used herbicide, is highly toxic to humans and animals. The primary injury occurs in the lung, v
Paraquat, a quaternary nitrogen herbicide, is a highly toxic pro-oxidant that causes multiorgan failure including that of th
BACKGROUND: Ferredoxin-NADP(H) reductase (FNR) from Pisum sativum and Flavodoxin (Fld) from Anabaena PCC 7119
Agmatine is a biogenic amine (l-arginine metabolite) of potential relevance to several central nervous system (CNS) cond
Paraquat, a cationic herbicide, produces degenerative lesions in the lung and in the nervous system after systemic admin
Diquat and paraquat are nonspecific defoliants that induce toxicity in many organs including the lung, liver, kidney, and b
Oxidative stress occurs when the generation of reactive oxygen species (ROS) exceeds the capacity of the cell's endogen
Considering that oxidative stress plays a role in corneal fibroblast degeneration during granular corneal dystrophy type 2

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